



DEVILBISS®



oxygen therapy



DEVILBISS®
HEALTHCARE



The Devilbiss iFill Personal Oxygen Station, Model 535D, represents a breath of fresh air for home oxygen providers who are looking to maintain superior customer service, profitability and their position in the marketplace during changing times. The fact is, iFill from Devilbiss gives you the single best opportunity to convert to a non-delivery or limited delivery business model, allowing you to serve more patients without adding staff or costly services. iFill is a new approach to the portable oxygen market.

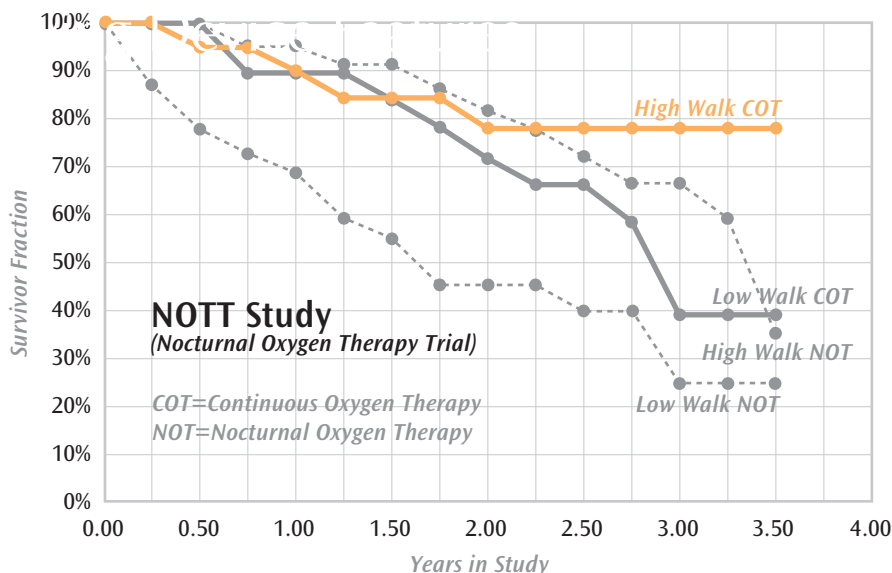
- iFill makes it easy to convert your existing oxygen customers who currently rely on cylinder deliveries. There's no need to replace your customers' existing concentrators.
- The iFill unit extracts purified oxygen from room air using standard oxygen concentrator technology.
- Unlike competitive units, iFill can be used with your existing concentrator fleet.

Intuitive design is easy to use

- Users simply align the cylinder's nipple connector with the fill connector on the unit (see photos) and click into place.
- Control panel lights illuminate while the cylinder is filling and when the cylinder is full.
- When full, users remove the cylinder by pressing down on the outer ring of the fill connector located under the nipple connector.
- Large outer ring is designed for individuals with limited dexterity, requiring very little pressure to depress.

Features and benefits

- iFill makes it easy and convenient for your customers to fill portable oxygen cylinders in their homes to give them greater freedom to come and go as they please.
- iFill provides the flexibility to fill most cylinder sizes including M4,M6,ML6,C,D and E.
- iFill lets users fill their M6 cylinders in just a little over an hour – not the two hours it can take with other in-home oxygen filling units. Shorter fill times save energy costs.
- The iFill unit can be placed and used virtually anywhere in the home — minimizing the noise and disruption to daily life.
- Partially filled cylinders can be easily topped off.
- Automatically shuts off when filling is complete.
- Includes easy-roll casters that make it easy to move and store the unit when not in use.
- Cylinders can be refilled as often as needed.



Get out and live

Research findings confirm that active patients on continuous oxygen therapy (COT) have a significantly higher survival rate than inactive patients on nocturnal oxygen therapy (NOT).

Source: Petty TL, Bliss PL, Ambulatory Oxygen Therapy, Exercise, and Survival with Advanced Chronic Obstructive Pulmonary Disease (The Nocturnal Oxygen Therapy Trial Revisited) Respiratory Care 2000;Vol 45(2) :208.



Choice of cylinder

DeVilbiss PD1000A PulseDose® Oxygen Conserving Device

- Widely recognized as the gold standard of conserving technology, offering true 3.5:1 savings. The PD1000A is designed to minimize discomfort associated with oxygen therapy. Patients report decreased drying and irritation of the nose.
- Quickly delivers a 16.5 ml bolus of oxygen (per liter setting) deep into the lungs. Volume of oxygen is consistent, regardless of breathing rate, eliminating the need to adjust settings during exertion.
- Intuitive click-stop prescription control knob lets users easily choose among eight common prescription settings.
- Rugged, impact-resistant GE LEXAN® case.
- Single lumen cannula
- Visual indicators for low battery (flashing red LED), insufficient battery (solid red LED) and normal pulsing (flashing green LED).
- Two standard AA alkaline or NIMH batteries provide approximately 50 days of operation (2 lpm prescription setting; 20 bpm, 4 hours/day) Continuous flow mode requires no batteries.



Standard Regulator

- Pneumatic continuous flow regulator
- Provides .5 – 6 lpm continuous flow
- Single lumen cannula
- Brass fittings



LEXAN is a registered trademark of General Electric Company.

Oxygen Conserving Devices



PulseDose® Technology

For more than 15 years, DeVilbiss PulseDose oxygen conserving technology has been on the leading edge of ambulatory oxygen therapy. Unlike other systems that simply limit the flow of oxygen, PulseDose delivers a consistent dose of oxygen at the very moment it is most beneficial – on the leading edge of inspiration.

PulseDose actually delivers oxygen more efficiently than continuous flow with consistent high flow delivery right when the patient needs it most.

PD1000 PulseDose LT Compact

- 3.5:1 Real Savings Ratio*
- 3-year warranty
- Field-serviceable: speeds return of unit to use
- Easy to set-up, use and maintain
- Compact size
- Very light weight (16.3 oz.)

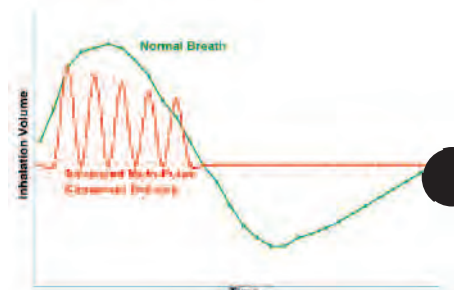


MicroPulse™ Technology

The MicroPulse delivers multiple, quiet, gentle pulses of oxygen throughout the patient's inspiration. If the patient inspires longer or deeper, the MicroPulse produces multiple pulses and provides the patient with more oxygen. This new technology results in optimal patient saturation and conservation. Moreover, the MicroPulse is extremely simple to use, requiring no batteries, no special cannula, and operates using only a single thumbwheel.

MP1500 MicroPulse Pneumatic

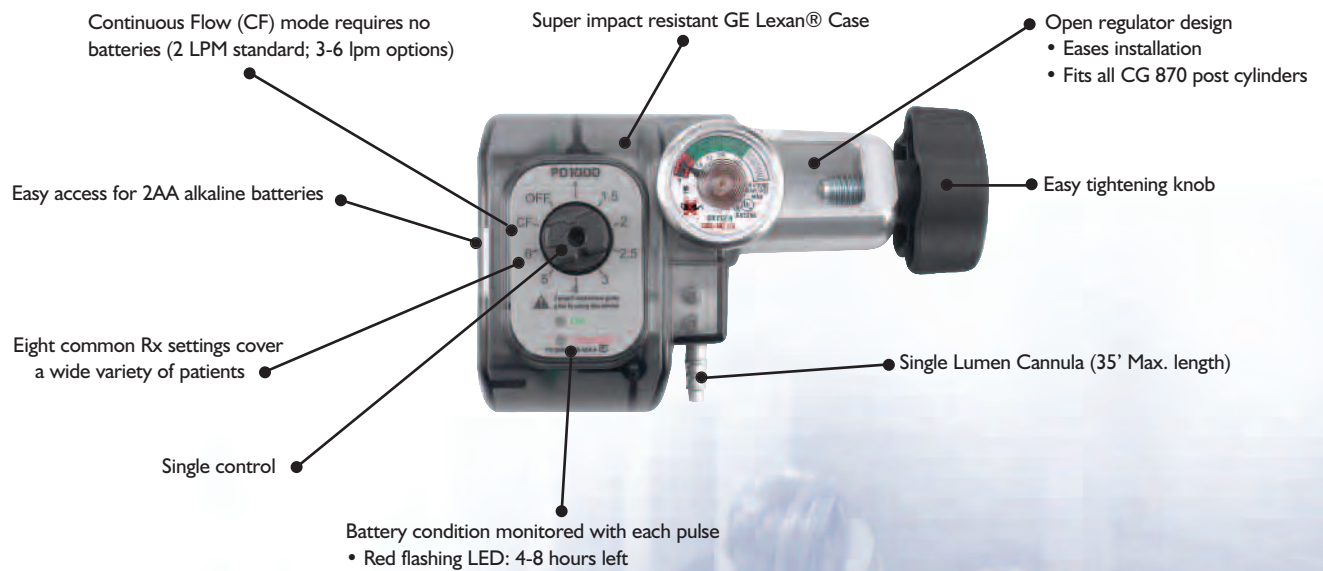
- Advanced single lumen pneumatic operation (No Batteries Required)
- Simple operation using only one notched thumbwheel
- Typical oxygen conservation 3:1
- Incorporates multi-pulse type waveform technology
- Uses standard single lumen cannula
- Ergonomic T-Handle included
- Two delivery modes- Pulse and Continuous
- 1-5 lpm flow settings; 1, 2, 3, 4, 5 lpm
- 2 lpm continuous flow setting
- Made in the USA



* based on testing from Valley Inspired Products, Burnsville, MN

Conserving Device Features

PD1000



PD1000 USE TIMES* SHOWN IN HOURS										
Setting	Walkabout Mini M-6 Cylinder 164 Gaseous Liters		Hideaway ML-6 Cylinder 170 Gaseous Liters		Walkabout I "C" Cylinder 240 Gaseous Liters		Walkabout 2 "D" Cylinder 415 Gaseous Liters		"E" Cylinder 682 Gaseous Liters	
	CF	PD	CF	PD	CF	PD	CF	PD	CF	PD
1	2.7	8.3	2.8	8.6	4.0	12.1	6.9	21.0	11.4	34.4
2	1.4	4.1	1.4	4.3	2.0	6.1	3.5	10.5	5.7	17.2
3	0.9	2.8	0.9	2.9	1.3	4.0	2.3	7.0	3.8	11.5
4	0.7	2.1	0.7	2.1	1.0	3.0	1.7	5.2	2.8	8.6
5	0.6	1.7	0.6	1.7	0.8	2.4	1.4	4.2	2.3	6.9
6	0.4	1.4	0.5	1.4	0.7	2.0	1.2	3.5	1.9	5.8

CF=Continuous Flow

PD=PulseDose

LPM-Liters Per Minute

*Based on 20 breaths per minute

Oxygen Concentrators

Safety Features

Not only do DeVilbiss oxygen concentrators lead the industry in reliability and durability, they provide unmatched patient safety. Safety features found on all DeVilbiss oxygen concentrators include:

- Pressure-compensated flow meter that displays accurate flow to the patient
- Pressure-relief valve and thermal protection on the compressor
- Double-insulated unit; two-prong plug
- Flame-retardant cabinet
- High/low pressure alarms
- Power failure alarm

OSD Model

OSD® (Oxygen Sensing Device) - the optional, patented microprocessor-controlled ultrasonic monitoring device optimizes patient safety:

- Accurate sensing device ($\pm 2\%$ deviation)
- No maintenance required, no parts to wear out, no batteries to change
- The OSD operates as follows:
 - 85% and above = green LED
 - 84.9-75% = yellow LED
 - 74.9% and below = yellow LED and audible signal

(International models may vary)



Three-Liter Concentrator 303DS/DZ

- Lightweight, compact and portable
- Easy to transport
- Light enough so that patients can take it with them while traveling - 37 pounds
- Proven reliability and efficiency
- Pressure-vacuum system—unique to DeVilbiss
- Dual-head compressor: One head is used to produce pressure, the other head is used to produce a vacuum
- Single-solenoid valve with a 10-year warranty
- $93\% \pm 3\%$ oxygen concentration at all liter flows
- Extended life intake bacteria filter
- Reduced wattage—only 225 watts



Five-Liter Concentrator 515ADS/ADZ

515ADS/ADZ

- Exclusive Rotary Valve System contributes to the improved performance of the 515A
 - Designed for greater flow through the valve and process flexibility
 - Life testing shows exceptional reliability for 10 million cycles, representing over 5 years of average use (at 5,000 hours/year)
- Improved Reliability – Five year bumper-to-bumper warranty is standard
- Lighter, 50 pounds – the reduction of two pounds means easier transport and handling
- Quieter – the 3 dBA reduction means most people should notice a clear improvement in noise level. 48 dBA (515ADZ measured per ISO 3744)
- Cooler Running – 10% - 15% cooler around the compressor; due to improved air flow, means longer compressor life
- Fixed humidifier port, recessed humidifier pocket helps prevent bottle and connection breakage
- Pressure-compensated flow meter permits use of long cannula while maintaining accurate flow setting
- Low-cost routine maintenance
 - Intake filter: 8760 hours
 - All parts mounted to be replaced in minutes

515ADS (with oxygen sensor)

Below 2 1/2 LPM flow, the system automatically "turns down" its flow cycle, resulting in (as compared to the 515DS):

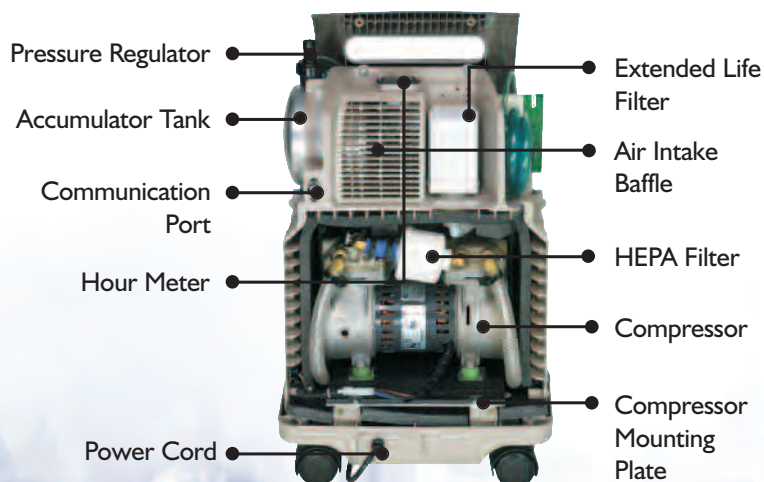
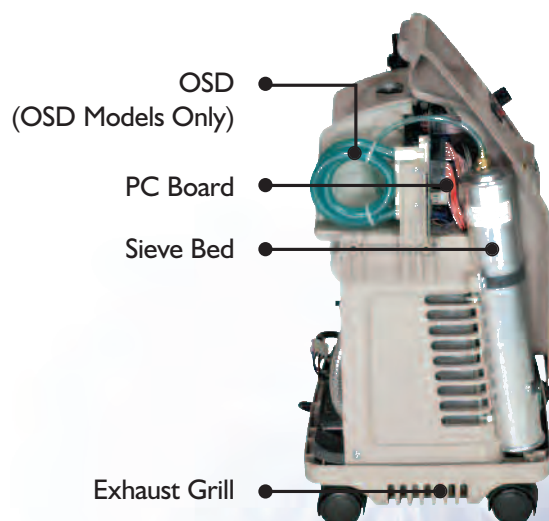
- 35% reduction in system pressure, reducing stress on compressor bearings and internal fittings.
- Lower temperature. The lower heat of compression means longer cup seal life
- Improved energy efficiency. At least 15% power reduction can save patients \$45 to \$60/year* in electricity costs
- Superior OSD, faster sampling rate, increased accuracy and reliability, allows O₂ check every 2 years



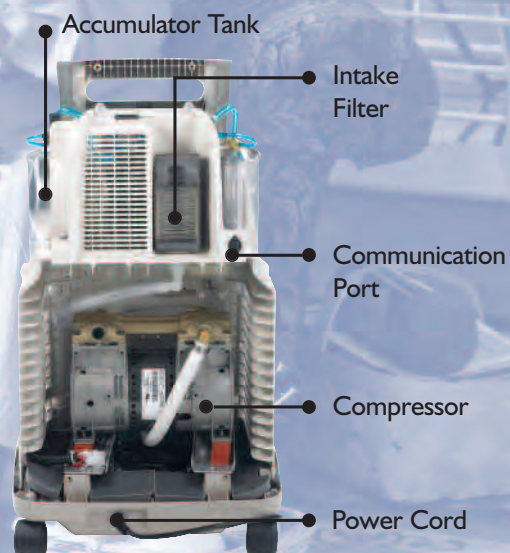
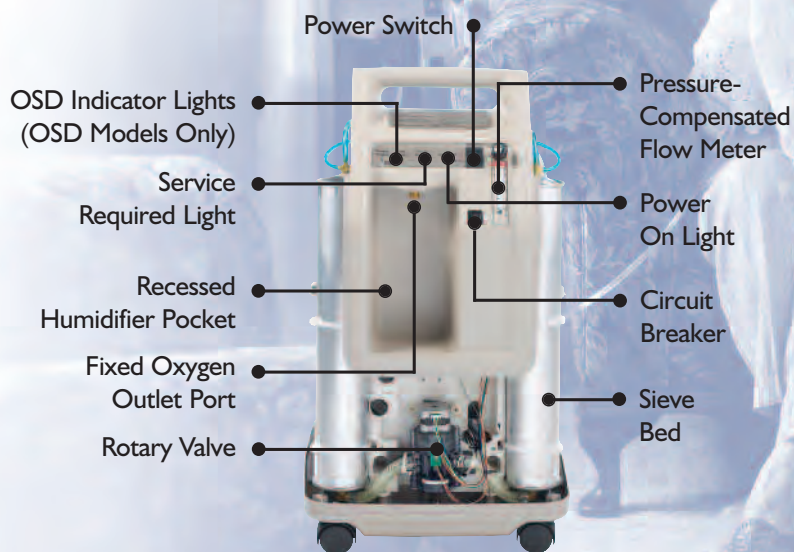
* at \$0.09/kwh, and 24 hours/day

Concentrator Features

Three-Liter Concentrator



Five-Liter Concentrator



Conserving Device Accessories

* Walkabout® 1



DeVilbiss PulseDose Conserving Device and Bag (EX3000D-651) for C cylinder
PDI000 Model #PDIWC0

* Walkabout® 2



DeVilbiss PulseDose Conserving Device and Bag (EX3000D-652) for D cylinder
PDI000 Model #PDIWD0

* Hideaway®



Comes complete with ML-6 cylinder unfilled (ML6870), PulseDose Conserving Device, and Bag (EX3000D-654)

Hideaway PD1000 W/O CYL Model #PDIH0
Hideaway PD1000 1 CYL Model #PDIH1
Hideaway PD1000 3 CYL Model #PDIH3
Hideaway PD1000 6 CYL Model #PDIH6

* Walkabout Mini



Comes complete with M-6 cylinder unfilled (M6870), PulseDose Conserving Device and Bag (EX3000D-653)

Walkabout Mini PD1000 W/O CYL Model #PDIWM0
Walkabout Mini PD1000 1 CYL Model #PDIWM1
Walkabout Mini PD1000 3 CYL Model #PDIWM3

* Hideaway® 2



Comes complete with M-6 cylinder unfilled (M6870), PulseDose Conserving Device, and waist-pack carrying case (PDI000D-654)
Hideaway PD1000 w/1 CYL Model #PDIHW1

Handi-Air Tote

- Locking telescoping carrier handle
- Static lifting handle
- Multiple cannula openings
- Multiple ventilation holes
- Adjustable cannula opening covers



* The DeVilbiss MicroPulse is similar in size to the DeVilbiss PD1000 and can be used with any cylinder bag that accommodates the PD1000.

Concentrator Accessories

New SMART Track Software

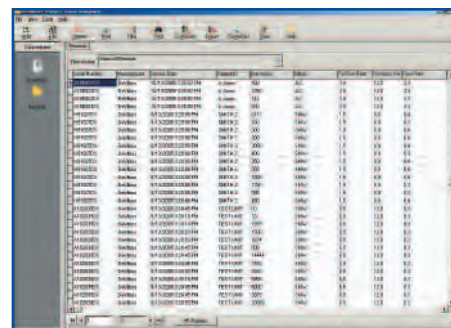
Compatible with all Windows versions, including Windows 2000 and XP.

Input patient data – flow rate, prescription hours, Patient ID.

Manage Download Equipment Information:

- S/N
- Patient ID
- Flow Rate
- O₂ concentration
- Cycle times

(Part# CONCMOD-620)



SMART Track® Module

Connects to all DeVilbiss OSD Oxygen concentrators.

64 records can be stored before download.

Perform in-depth concentrator checks during patient visits in 2/3 the time.

(Part# SMART-100)



Smart Track Compatibility Matrix

	Old Module	New Module	Software Version 1	Software Version 2
505DS	X	X	X	X
303DS	X	X	X	X
515DS	X	X		X
515ADS		X		X
Old Module			X	X
New Module				X

Pressure Regulator



Pressure regulator is available in 870-style post configuration.

(Part# EX3000D-603)

Oxygen Analyzer



- This analyzer checks the oxygen concentration level of concentrators with an accuracy of $\pm 2\%$
- Single switch operation
- Calibrates with the turn of a dial
- Easy-to-read digital display

(Part #02ANA)

Oxygen Modeling Program



The DeVilbiss Oxygen Modeling Program:

- Gives suppliers access to the costs that drive their businesses
 - Analyzes scenarios that show the profit potential of proposed changes
 - Ideal for managed care contract bidding
- Contact your Sunrise Account Manager for a consultation

Low Output Flow Meter



- Accuracy at low flows (1/8 -2 liters)
- (Part #515LF-607)

Conserving Device Specifications

PD1000 PulseDose LT Compact Conserving Device

Weight	14.7 ounces (16.3 ounces with battery)
Dimensions	4.75"L x 3.4"W x 2.8"H (12.06 cm L x 8.64 cm W x 7.11 cm H)
PulseDose Volumes	Liter flow: 1 1.5 2 2.5 3 4 5 6 cc of O ₂ : 16.5 24.8 33.0 41.3 49.5 66.0 82.5 99.0
PulseDose Continuous Flow Backup	2.0 lpm standard; 3-6 lpm cannula fitting available
Power Supply	(2) Standard "AA" alkaline or NiMH batteries; provide approx. 50 days usage*
Savings Ratio	3:1
Clinical Information	Equivalent to continuous flow. No need to increase liter flow during exercise; PulseDose is rate responsive
Cannula	Single lumen
Contents Gauge	Built into unit. Red zone: 0-500 psi (0-34 bar), Green zone: 500-2250 psi (34-155 bar)
Indicators	Low battery: visual alarm (red LED flashes), Insufficient battery: Visual alarm (Solid red LED), Normal Pulse: visual (green LED flashes)

*Based on 2 lpm, 20 bpm, 4 hrs per day.

MP1500 MicroPulse Pneumatic Oxygen Conserving Device

Weight	13.4 ounces
Product Length/Depth	4.57"
Bolus Volumes	Multiple, variable
Continuous Flow Backup	2.0 lpm
Savings Ratio	3:1
Cannula	Single lumen
Contents Gauge	Built into unit. Red zone: 0-400 psi, Neutral zone: 400-1800, Green zone: 1800-2200 psi

Concentrator Specifications

Three Liter

Model	303DS/DZ
Delivery Rate	1/2 - 3 liters per minute (1/4 liter increments)
Oxygen %	1 - 3 LPM 93% $\pm$ 3%
Operating System	Pressure sensing/pressure-vacuum
Sound Level (ANSI)	51 dBA average
Pressure	8.5 psig
Electrical Req.	115V, 60Hz (Int'l models available)
Power Consumption	225 watts average
Weight	37 pounds; w/OSD: 38 pounds
Dimensions	23"H x 13 7/8"W x 12"D; (58.4 x 35.2 x 30.5cm)
Safety Alarms	Audible and Visual: Power Fail, Restricted Flow, Long/Short/No Cycle, High/Low Pressure, Low O ₂ (OSD models)
Approvals	CAN/CSA - C22.2 No. 601.1-M90
Operating Environment	5°C to 40°C; Humidity range of 15% to 95%; non-condensing
Storage Conditions	-40°C to 70°C; humidity range of 10% to 100% including condensation
Warranty	Valving—Warranted for 10 years Optional OSD—Warranted for 10 Years All Other Components—Warranted for 3 years Labor—3 years when sent to Somerset, PA or an authorized Sunrise service center

Extended warranty available. International warranties may vary.

Five Liter

Model	515ADS/ADZ
Delivery Rate	1 - 5 liters per minute (1/2 liter increments)
Oxygen %	1 - 5 LPM 93% $\pm$ 3%
Operating System	Timed cycle/pressure swing
Sound Level (ANSI)	48 dBA (515ADZ measured per ISO 3744)
Pressure	8.5 psig
Electrical Req.	115V, 60 Hz, 4.2 AMP (Int'l models available)
Power Consumption	385 Watts Average 515 ADS only = 320 Watts @ 2.5 LPM and below
Weight	50 lbs.
Dimensions	27.75"H x 16"W x 14"D (70.5 x 40.6 x 35.6cm)
Safety Alarms	Audible and Visual: Low Pressure (non-OSD models) Low Flow (OSD Models), Power Fail, Low O ₂ (OSD models), Power On Audible: High Pressure via PR Valve
Approvals	CAN/CSA-C22.2 No. 601.1-M90
Operating Environment	10°C to 35°C, Humidity range of 30% to 75% with no degradation in performance across the voltage range as tested at sea level.
Storage Conditions	-40°C to 70°C, humidity range of 10% to 100% including condensation
Warranty	5 years

International warranties may vary.



oxygen therapy

DEVILBISS[®]
HEALTHCARE

DeVilbiss Healthcare, • 100 DeVilbiss Drive • Somerset, PA 15501
800-338-1988 • 814-443-4881 • www.DeVilbissHealthcare.com

DeVilbiss Healthcare is a division of Sunrise Medical HHG, Inc. ©2007 DeVilbiss Healthcare 07.07
LT-1870 Rev. E